

VII. ABSTRACT

This invention relates to apparatus and methods of delivering various compositions including medicaments to a variety of targets. The invention includes a dose administrator (1) which may be used for intranasal delivery of compositions or medicaments, such as live virus vaccines, to both humans and animals. An axial collapse prevention element (2) to prevent excessive axial deflection of the dose administrator (1) or a dose-location coordinate indicator (3) to facilitate the delivery of a dose to the desired target location may be coupled to the dose administrator (1). An intranasal probe (4) having a force dissemination contact surface (7) may be responsive to a first end of the dose administrator (1). The dose may be delivered from a conformable dose sequestration element (10) through an aperture which penetrates the dose delivery aperture element (5) and the dose may be caused to stream by coupling a stream delivery element (6) to the dose delivery aperture element (5). The force application element (12) which acts upon the dose may be separated from the dose by a fluid dose propellant (13). While the invention may be used for numerous applications, it specifically addresses the difficulties of delivering cold-adapted live equine influenza viruses intranasally to equids.